

## SWP Water Quality Summary

May 5 to June 10, 2009

**Electrical Conductivity:** EC decreased at Banks Pumping Plant (BPP), Devil Canyon and Barker Slough, but increased at Check 29 and Check 41 from May 5 to June 10, 2009. Concentrations ranged from 259 uS/cm to 589 uS/cm, below the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. As of June 10, 2009, the lowest and highest concentrations of 259 uS/cm and 589 uS/cm occurred at Barker Slough and Check 29, respectively. Concentrations decreased this month at BPP from 414 uS/cm to 390 uS/cm.

**Bromide:** Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.03 mg/L to 0.31 mg/L. As of June 10, Barker Slough had the lowest concentration of 0.03 mg/L, followed by Vallecitos with 0.15 mg/L, while the highest concentration of 0.31 mg/L occurred at Check 29. Concentrations at BPP have been relatively steady, but decreased slightly this month, from 0.17 mg/L to 0.16 mg/L as of June 10, 2009.

**Turbidity:** Turbidity levels increased at BPP and Barker Slough this month. Turbidity levels ranged from 1.2 NTU to 66 NTU. On June 10, 2009, the lowest level of 1.6 NTU occurred at Check 29 while the highest level of 66 NTU occurred at Barker Slough. BPP mean daily turbidity levels increased from 12.7 NTU on May 5 to 14.9 NTU as of June 10, 2009.

**Dissolved Organic Carbon (DOC):** Concentrations increased at BPP and Check 13, but decreased at Edmonston, from May 5 to June 10, 2009. DOC daily average concentrations at BPP, Check 13 and Edmonston ranged from 3.4 mg/L to 3.7 mg/L, from 3.5 mg/L to 3.7 mg/L and from 3.7 mg/L to 3.3 mg/L, respectively, as of June 10, 2009.

**Taste and Odor Compounds:** MIB and geosmin concentrations in the SWP were low project-wide, ranging from non-detect to 3 ng/L. Several readings were taken this month at Clifton Court inlet and outlet, BPP, Lake Del Valle Check 7, Check 13, Check 41 and Castaic Lake, from May 4 to June 3, 2009.

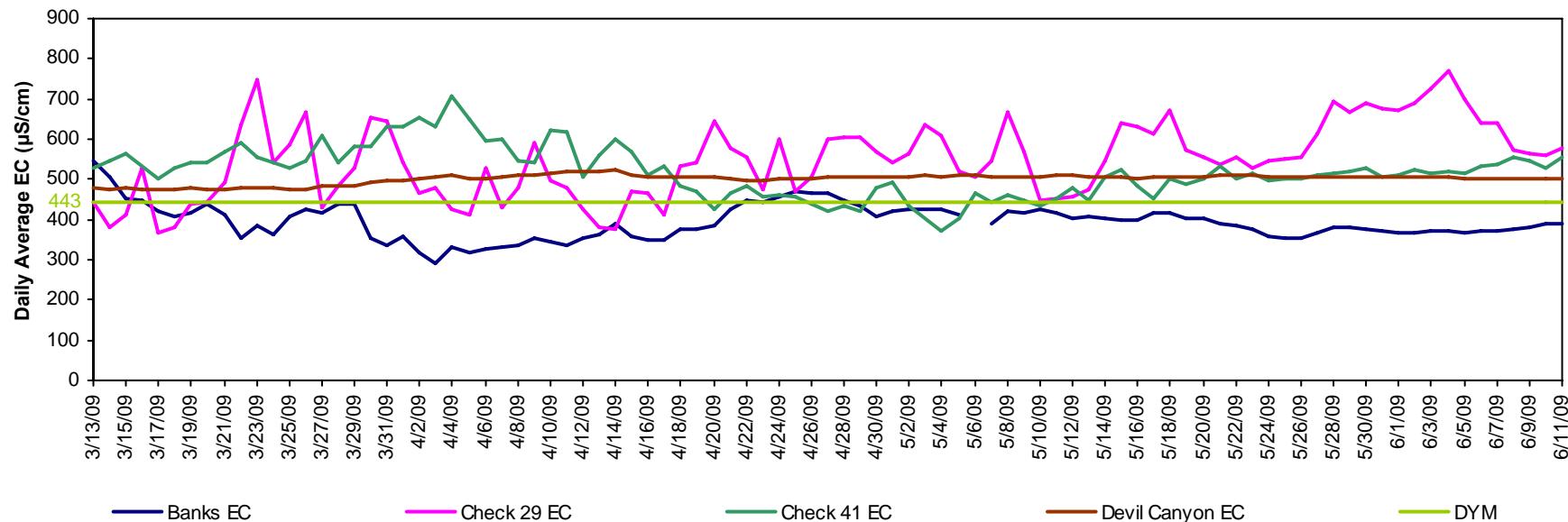
**Pump-ins:** Pump-ins to the State Water Project (SWP) from the banking programs (Alvin Edison, Kern Water Bank, Cross Valley Canal, Semi-tropic and Wheeler Ridge Storage Water District) totaled 40,301-acre feet (AF).

### Note:

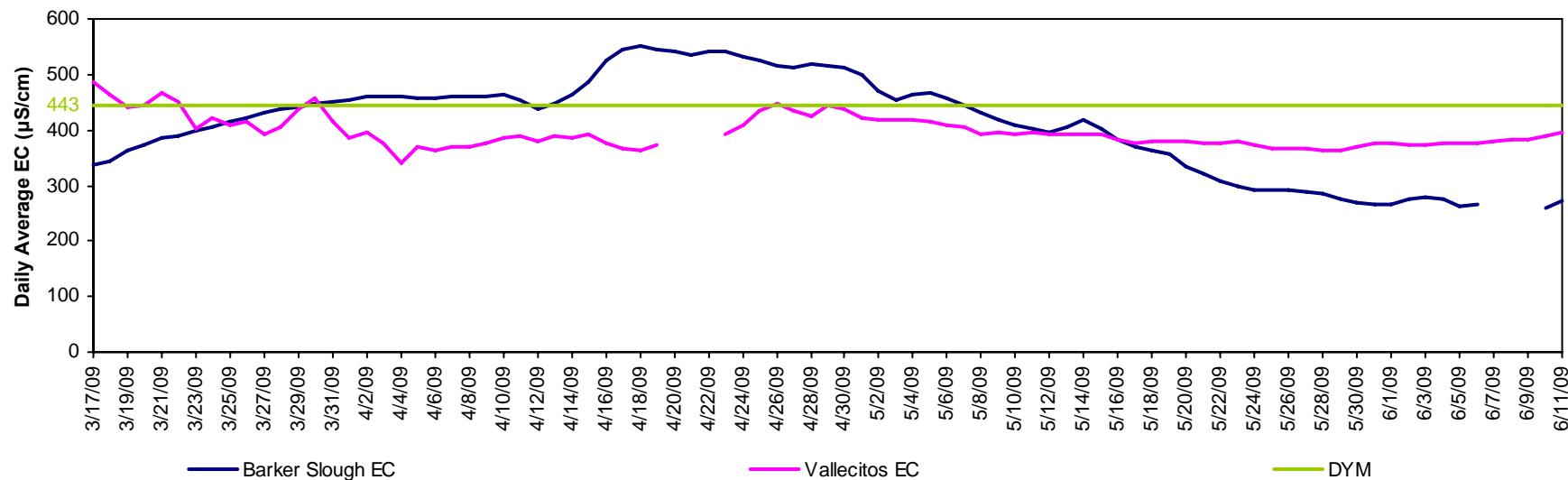
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from any of the 15 automated stations along the SWP, visit:

<http://wwwomwq.water.ca.gov> and click the “Autostation Data” link on the left side navigation bar.

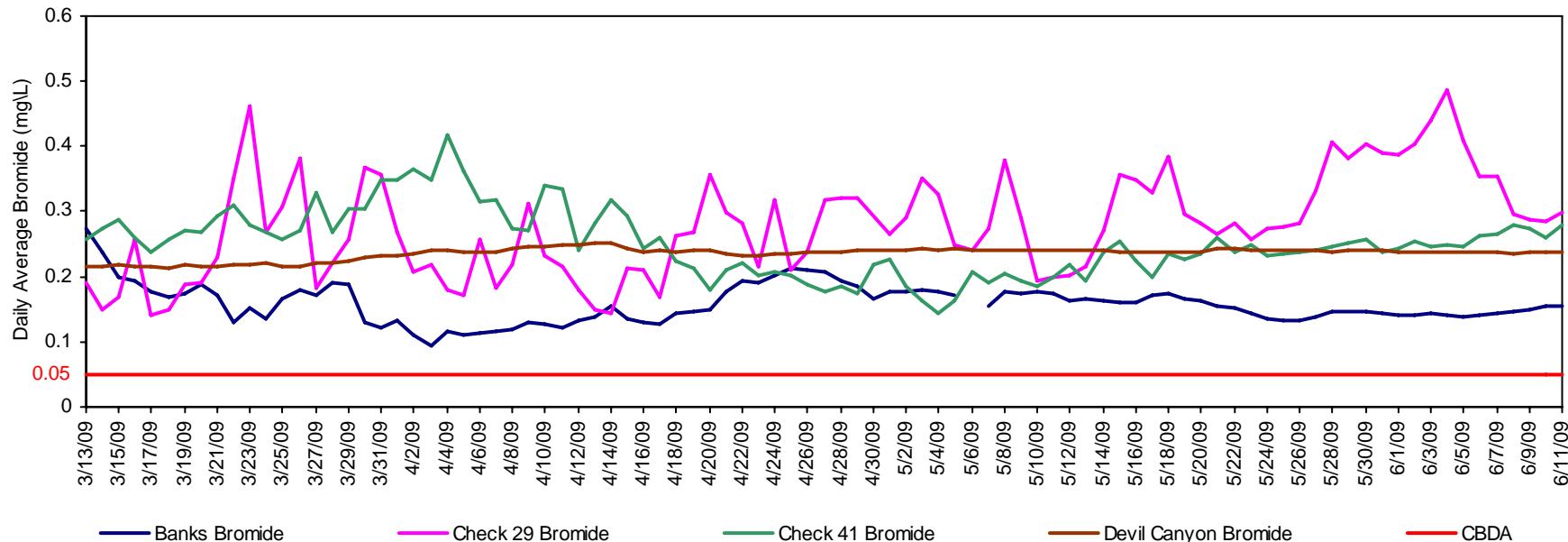
## California Aqueduct - Electrical Conductivity



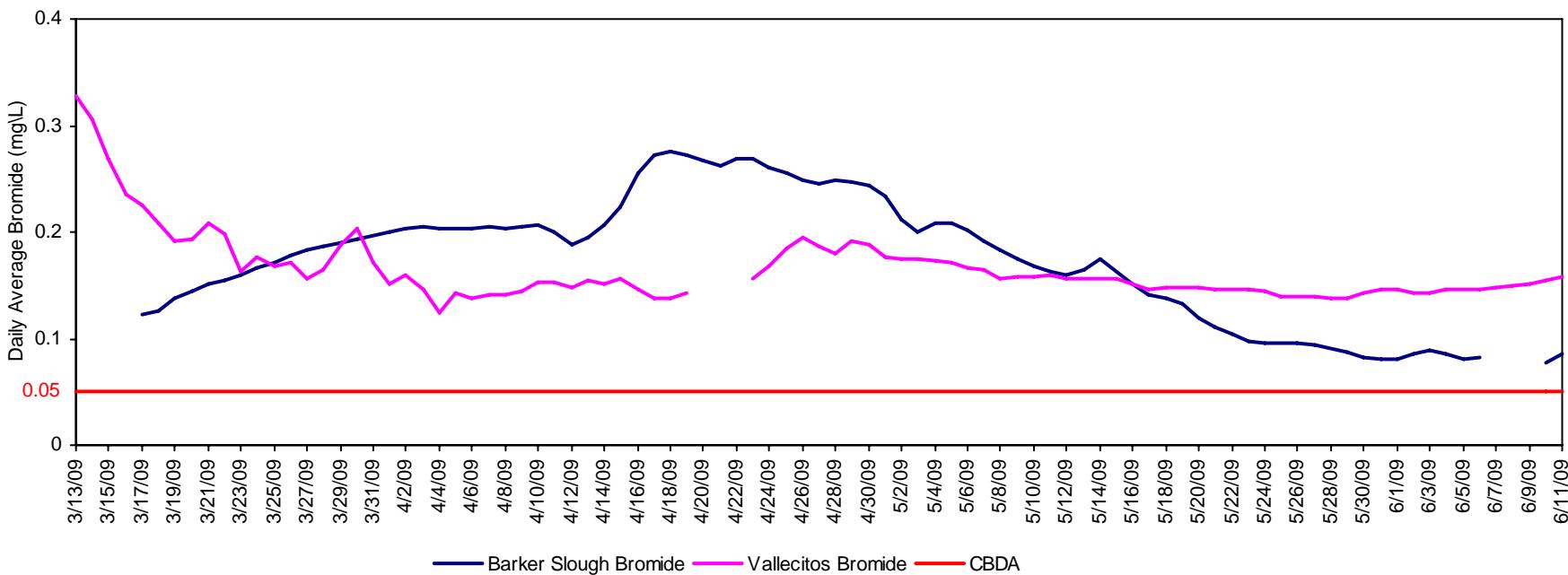
## North and South Bay Aqueduct - Electrical Conductivity



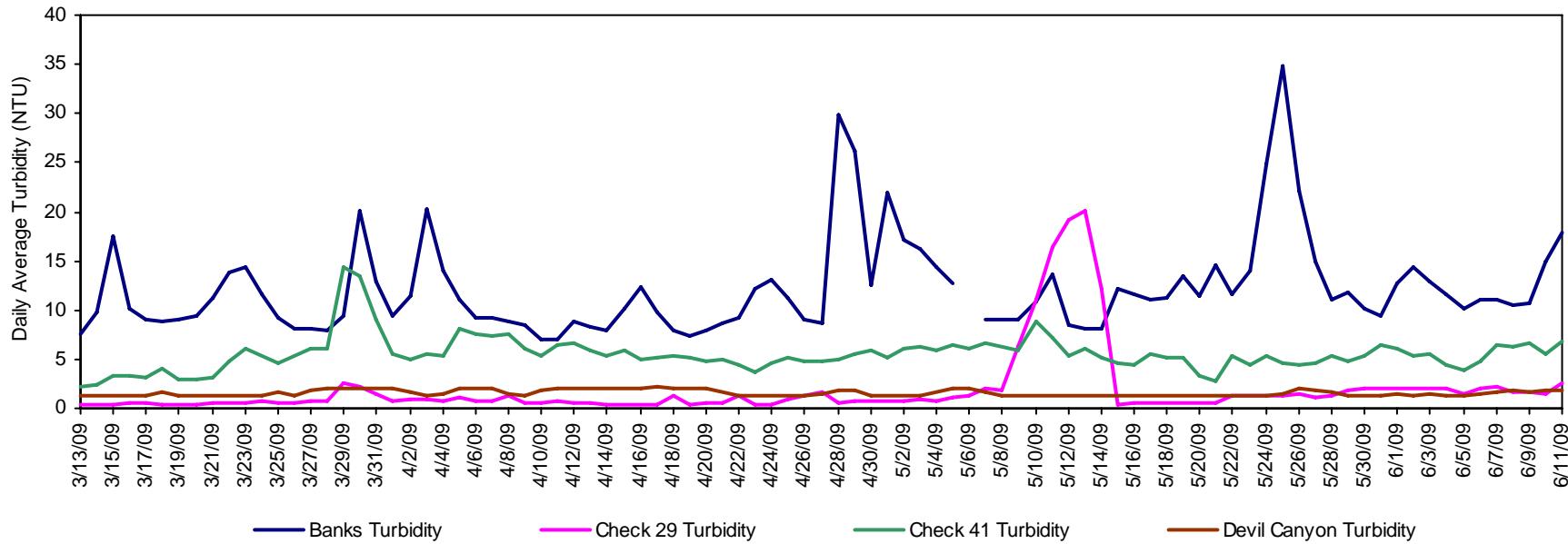
### California Aqueduct - Calculated Bromide



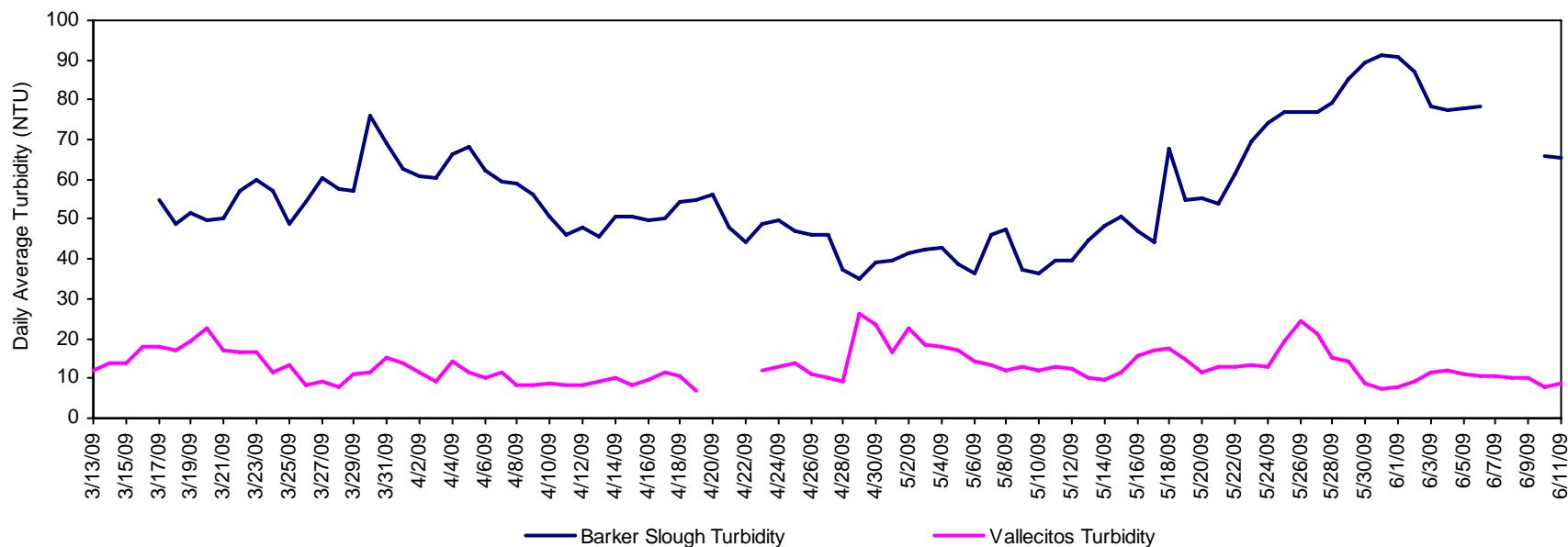
### North and South Bay Aqueduct - Calculated Bromide



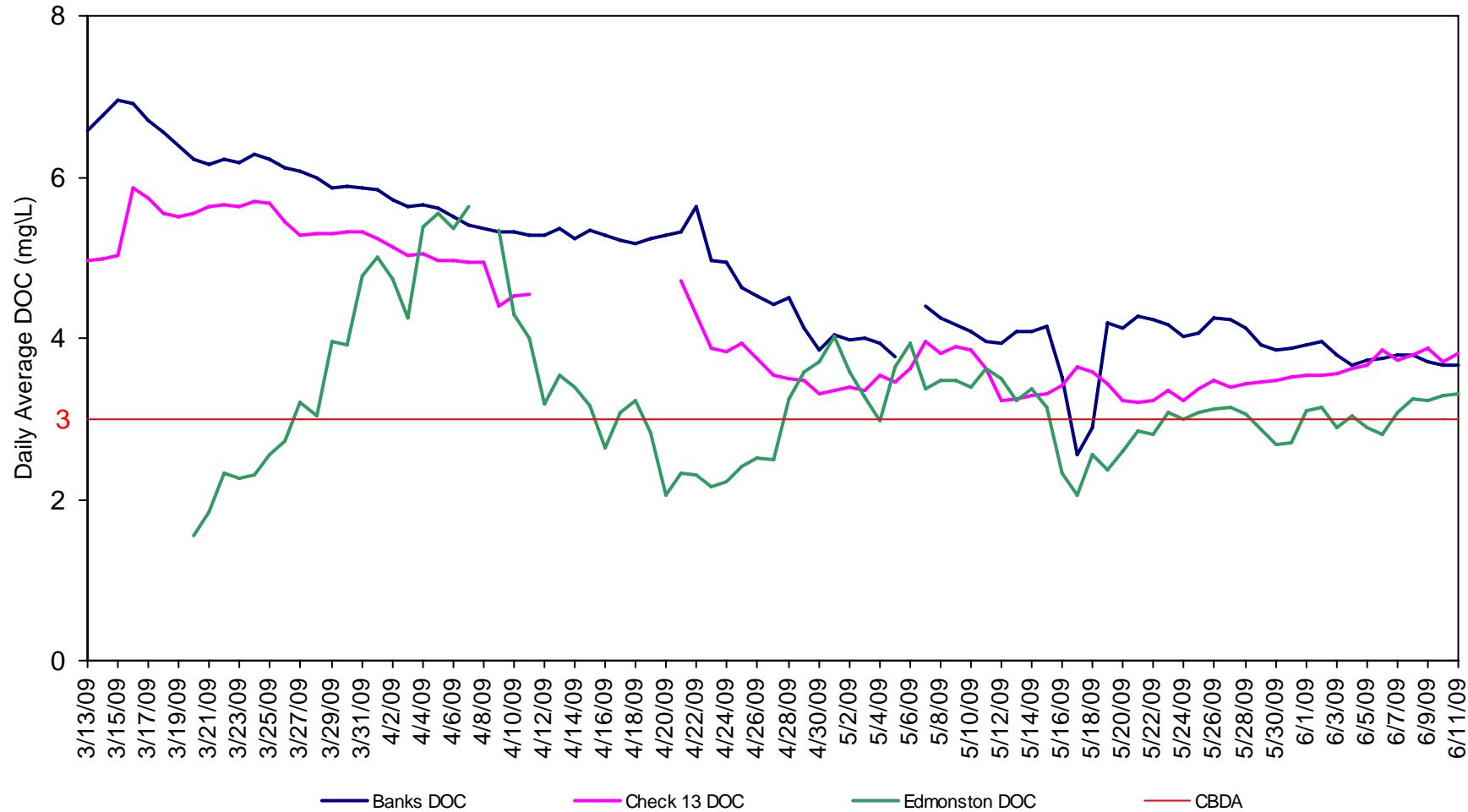
### California Aqueduct - Turbidity



### North and South Bay Aqueduct - Turbidity



## California Aqueduct Calculated Dissolved Organic Carbon



# SWP Water Quality Report

## DWR Operations & Maintenance Water Quality Automated Station Data from May 5 to June 10, 2009

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC ( $\mu\text{S}/\text{cm}$ )	733**	average	388	596	497	506	318	381		
		5/5/09	414	517	401	509	467	No data		
		6/10/09	390	589	531	503	259	389		
Bromide (mg/L)	0.05*	average	0.15	0.32	0.23	0.24	0.11	0.15		
		5/5/09	0.17	0.25	0.16	0.24	0.21	No data		
		6/10/09	0.16	0.31	0.26	0.24	0.03	0.15		
Turbidity (NTU)		average	12.8	3.5	5.4	1.5	59	12.8		
		5/5/09	12.7	1.2	6.4	2.0	39	No data		
		6/10/09	14.9	1.6	5.5	1.9	66	7.8		
DOC (mg/L)	3.0*	average	3.8						3.5	3.1
		5/5/09	3.4						3.5	3.7
		6/10/09	3.7						3.7	3.3
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	5/4/09 to	ND	ND	ND	ND	-	-	-	-	-
Geosmin (ng/L)	6/10/09	3	2	2	ND	-	-	-	-	-

\*CBDA Objective

\*\*Article 19 Monthly Average (converted from 440 mg/L to 733 $\mu\text{S}/\text{cm}$ )

ND = Non-detect